

CURRICULUM VITA

I. Personal Information

Name: William Dean Kalsbeek

Date of Birth: October 14, 1946

Place: Orange City, Iowa

Citizenship: United States

Marital Status: Married, Two Children

Wife: Rebecca (Talton) Kalsbeek

Business Address: Survey Research Unit
Department of Biostatistics
730 Airport Road, Suite 103
Chapel Hill, NC 27599-2400
e-mail:bill_kalsbeek@unc.edu

II. Education

| | <u>Institution</u> | <u>Major</u> | <u>Degree</u> | <u>Year Conferred</u> |
|-----|-----------------------------|---|---------------|---------------------------|
| (1) | Northwestern College (Iowa) | Mathematics | B.A. | 1968 |
| (2) | University of Washington | Biostatistics Trainee in Biostatistics | Summer | 1969 |
| (3) | University of Michigan | Biostatistics | M.P.H. | 1970 |
| (4) | University of Michigan | Biostatistics | Ph.D. | 1973 |
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III. Honors and Awards

- (1) National Honor Society, 1964.
- (2) Undergraduate Tuition Scholarship, Northwestern College 1964-1968.
- (3) Undergraduate Music Scholarship, Northwestern College, 1964-1968.
- (4) Cum Laude, Bachelor of Arts, Northwestern College, 1968.
- (5) M.S. Public Health Service Traineeship, University of Michigan, 1968-1972.
- (6) Nominee: McGavran Award for Excellence in Teaching, University of North Carolina, 1979, 1983, 1998.
- (7) Sigma Xi, The Scientific Research Society, University of North Carolina, 1983-present.
- (8) Fellow, Carolina Population Center, University of North Carolina, 1985.
- (9) Delta Omega, The Honorary Public Health Society, 1986-present.
- (10) Excellence Award in Statistics and Epidemiology: North Carolina Public Health Association, 1991.
- (11) Alumni Recognition Award for Distinguished Professional Achievement, Northwestern College, 1994.
- (12) Research Fellow, The Cecil G. Sheps Center for Health Services Research, 1994-1997
- (13) Special Award for Outstanding Service, Survey Research Methods Section, American Statistical Association, 1996.
- (14) Fellow, American Statistical Association, 1997.

IV. Employment History (From 9/68)

- (1) Research Trainee, Center for Population Planning, University of Michigan. Activities included the analysis of pre- and post-partum data from a sample of intrauterine device users in the Family Planning Program at Pakistan. Also included was the development of data forms from the Maternal and Infant Care Project in Detroit, Michigan. (1/69-6/69)
- (2) Assistant in Research, Statistics Research Section, Tecumseh Community Health Study, department of Epidemiology, School of Public Health, University of Michigan. Responsibilities included the statistical design of a time-wise comparison study of symptoms associated with coronary heart disease. (5/70-8/70)
- (3) Research Trainee, Summer Workshop for Foreign Sampling Statisticians presented at the Institute for Social Research, Ann Arbor, Michigan. The objective of this workshop was to acquaint foreign sampling statisticians with a variety of modern sampling methods ranging from simple random selection to complex multi-state area designs. (6/72-8/72)
- (4) Doctoral Candidate, University of Michigan Department of Biostatistics. Dissertation research on small area estimation from sample survey data and associated data which is known for the entire population. This research was sponsored by the United States Bureau of the Census. (12/71-8/73)
- (5) Statistician, Sampling Research and Design Center, Research Triangle Institute, Research Triangle Park, North Carolina. Principal responsibilities involved providing sampling input to the design and analysis of several RTI studies. (9/73-9/76)
- (6) Adjunct Assistant Professor, Department of Biostatistics, University of North Carolina. Activities have involved membership on a student dissertation committee. (9/76-8/78)
- (7) Senior Statistician, Sampling Research and Design Center, Research Triangle Institute, Research Triangle Park, North Carolina. Activities involved major project direction responsibilities for several large RTI sample surveys. (9/76-8/78)
- (8) Assistant Professor, Department of Biostatistics, University of North Carolina. Responsibilities include teaching, research and service. (9/78-6/85)
- (9) Statistical Researcher, Office of Research and Methodology, National Center for Health Statistics, a part-time assignment agreement under the Intergovernment Personnel Act to conduct research dealing with methodological problems occurring in health surveys. (3/81-6/82)

- (10) Associate Professor, Department of Biostatistics, University of North Carolina. Responsibilities include teaching, research, and service. (7/85-3/97)
- (11) Director, Survey Research Unit, Department of Biostatistics, University of North Carolina. Conduct a variety of mail and CATI telephone interviews. (1/90-)
- (12) Professor, Department of Biostatistics, University of North Carolina. Responsibilities include teaching, research, and service. (3/97-)

V. Professional Associations

- (1) Fellow and Member, American Statistical Association
- (2) Member, American Public Health Association
- (3) Member, Biometrics Society
- (4) Member, Institute for Research in Social Science
- (5) Member, American Association for Public Opinion Research

VI. Funded Research Activities (From 7/71)

A. Roles Served

- (1) Principal Investigator: Dissertation research on small area estimation from sample survey data. (9/72-8/73)
- (2) Co-Investigator: A study of sampling to analyze tax structures and rate schedules for the Commonwealth of Virginia. (9/73-6/74)
- (3) Analyst: Follow-up evaluation study of recent participants in the Upward Bound and Talent Search Programs. (11/73-3/74)
- (4) Analyst: Cost of living survey for residents of the State of North Carolina. (10/73-1/74)
- (5) Analyst: Special study of nonrespondents and associated nonresponse bias for the National Assessment of Educational Progress. (10/73-11/75)
- (6) Principal Investigator: Survey to develop, test, and carry out a survey on the incidence, prevalence, and costs of head and spinal cord injury. (7/74-12/77)
- (7) Technical Director: National Medical Care Expenditure Survey to provide a current assessment of the utilization and cost of medical care in America. (6/76-8/78)
- (8) Principal Investigator: Virginia Health Survey to provide a quantitative assessment of the health of and associated health care received by residents of the Commonwealth of Virginia. (9/77-8/78)
- (9) Sampling Statistician: Study of the Effects of Nosocomial Infection Control (SENIC) for the Center for Disease Control to develop estimators for analysis of data. (9/78-5/80)
- (10) Sampling Statistician: International Population Laboratories for USAID project to develop the capability to conduct fertility surveys in several developing countries. (9/78-7/83)
- (11) Co-Investigator: Study to Develop a Taxonomy of Nonsampling Error Components for the National Science Foundation. (3/79-12/80)
- (12) Principal Investigator: Public Health Special Project Grant to enhance the sampling and data management training in the Department of Biostatistics at the University of North Carolina. (7/80-12/82)
- (13) Principal Investigator: Cooperative agreement with the Centers for Disease Control, Office of

Surveillance and Analysis, to provide technical assistance in the development, implementation, and evaluation of a system of statewide telephone surveys known as the Behavioral Risk Factor Surveillance System (BRFSS). (3/82-)

- (14) Sampling Statistician: Lipids Research Clinics study to assess blood lipid levels in the U.S. population using data from the Health and Nutrition Examination Surveys. (3/82-6/86)
- (15) Sampling Statistician: Environmental Protection Agency project to assess space and time variation in mortality and health indices in relation to environmental quality. (4/84-6/87)
- (16) Co-Investigator: Design study with the Centers for Disease Control for a longitudinal survey of pregnancy and childbirth. (7/85-6/93)
- (17) Sampling Statistician: National Cancer Institute study to develop and assess a self-help quit smoking program for black Americans. (7/85-12/88)
- (18) Sampling Statistician: Collaborative study funded by the National Heart, Lung and Blood Institute on atherosclerosis risk in communities. (9/85-12/88)
- (19) Survey Statistician: Program on Aging, School of Public Health, University of North Carolina. (6/86-6/90)
- (20) Principal Investigator: Design study on sampling migrant farm workers, funded by the Milbank Memorial Fund. (6/87-6/89)
- (21) Sampling Statistician: Piedmont Dental Survey of the Elderly; funding by the National Institute for Dental Research. (6/87- 6/91)
- (22) Survey Statistician: Design study for a state-wide injury surveillance system, funded by the Centers for Disease Control. (1/87-12/88)
- (23) Sampling Statistician: Design study for a national survey on the contraceptive behavior of teenage women and their partners; funded by the National Institute of Child Health and Development. (9/87-12/91)
- (24) Co-Principal Investigator: Immunization demonstration project on survey methods to assess immunization coverage in preschool children; funded by the Centers for Disease Control. (10/89-2/93)
- (25) SRU Director: Principal administrative and technical contact person for numerous surveys done by the Survey Research Unit as a service to or in collaboration with various researchers at UNC-CH and elsewhere. (1/90-)
- (26) Survey Statistician: SRU contract to conduct a followup survey of WIC program participants in North Carolina; funded by the North Carolina DEHNR, Division of Maternal and Child Health. (1/90-3/92)
- (27) Survey Statistician: SRU contract to conduct a design study in North Carolina for a planned physician surveillance system; funded by the Centers for Disease Control. (6/91- 9/92)
- (28) Survey Statistician: SRU contract to conduct a national survey of adults on knowledge concerning the risk of contracting AIDS from health care workers; funded by the Centers for Disease Control. (9/91-8/92)
- (29) Survey Statistician: SRU subcontract to a study to investigate outcomes and the efficiency if care related to low back pain; funded by the Agency for Health Care Policy Research. (9/91-).
- (30) Survey Statistician: SRU subcontract to a national telephone followup survey of the elderly to assess their level of functional ability, funded by the National Institute on Aging. (9/92-7/94)

- (31) Survey Statistician: SRU subcontract to a nutrition intervention study to assess methods to promote (under a "five-a-day" program) the consumption of more fruits and vegetables by African-Americans, funded by the National Cancer Institute. (7/93-)
- (32) Survey Statistician: SRU subcontract to a national study to assess the determinants of hospital closings in rural areas, funded by the Agency for Health Care Policy and Research. (9/93-3/96)
- (33) Survey Statistician: SRU subcontract to a study on the planning and development of a model community-based urban-rural health care network in Charlotte, NC, funded by the Department of Housing and Urban Development. (9/93-2/96)
- (34) Survey Statistician: SRU contract to design and conduct the first annual North Carolina Health Profile in collaboration with the North Carolina State Center for Health and Environmental Statistics, funded by the Robert Wood Johnson Foundation. (10/93-12/96)
- (35) Survey Statistician: SRU subcontract to a study on the prevalence of sport-related injury in North Carolina high schools. fund by the National Institutes of Health. (1/96-)
- (36) Survey Statistician: SRU subcontract to a national study to investigate the genetic causes of Alzheimer's disease in a national registry of aging twins, funded by the National Institute on Aging. (3/96-)
- (37) Survey Statistician: SRU subcontract to a national study to assess violence against women living in rural areas, funded by the National Institute of Justice. (3/96-)
- (38) Survey Statistician: SRU technical services agreement with the UNC-CH Frank Porter Graham research center to design several samples for FPG child development research studies. (9/96-)

B. Significant Samples Designed (Since 9/73)

- (1) National Head and Spinal Cord Injury Survey: Records abstract and personal interview survey; a stratified multi-stage sample of 9,700 patient medical records; PPS selection of county groups as PSUs; unequal probability design. (1975)
- (2) National Medical Care Expenditure Survey (with Martin R. Frankel): Personal interview survey; stratified multi-stage sample of 16,000 households; PPS selection of county groups as PSUs; area listing used to select dwellings; unequal probability design. (1976)
- (3) Virginia Health Survey (with Robert E. Mason): Personal interview survey, stratified multi-stage sample of 6,200 households; PPS selection of minor civil divisions as PSUs; area listing used to select dwellings; unequal probability design. (1977)
- (4) East Java (Indonesia) Population Survey: Personal interview survey; stratified multi-stage sample of 19,000 women aged 15-49 years; PPS systematic selection of villages as PSUs; dwellings sample from area list; unequal probability design. (1979)
- (5) Somalia Fertility and Mortality Survey of Settled Population: Personal interview survey; stratified multi-stage sample of 8,000 women aged 15-49 years; PPS systematic selection of administrative areas as PSUs; complete enumeration of compact segments; equal probability design. (1980)
- (6) Jordan Demographic Survey: Personal interview survey; stratified multi-stage sample of 14,000 women aged 15-49; replicated PPS systematic selection of blocks (urban) and localities (rural) as PSUs; adapted census listing used to select dwellings; equal probability design. (1980)
- (7) Somalia Fertility and Mortality Survey of Nomadic Population: Personal interview survey; stratified two-stage sample of 430 women aged 15-49 years; stratified SRS selection of waterpoints as PSUs; unequal probability design. (1981)

- (8) Puerto Rico Fertility and Family Planning Survey: Personal interview survey; stratified multi-stage sample of 3,200 women aged 15-49; replicated PPS systematic selection of numeration districts as PSUs, complete enumeration of compact segments; unequal probability design. (1981)
- (9) Orange County Health Department Survey: Telephone interview survey; Waksberg three-stage random digit dialing (RDD) sample of 240 adults; unequal probability design. (1981)
- (10) Assessment of Toxicity Data on Chemical Substances (with Committee on Sampling Strategies, National Academy of Sciences): Literature abstract survey; stratified SRS of 675 existing substances; unequal probability design. (1981)
- (11) Michigan Health Risk Assessment Survey: Telephone interview survey; stratified Waksberg three-stage RDD sample of 1,400 adults; unequal probability design. (1982)
- (12) Alaskan Health Risk Assessment Survey: Telephone/personal interview survey; stratified Waksberg three-stage RDD sample (urban areas) and two-stage list sample (rural areas) of 845 adults; SRS of rural communities with randomly chosen adults or key informants as respondents; unequal probability design. (1982)
- (13) North Carolina Memorial Hospital Community Awareness Survey I: Telephone interview survey; Waksberg three-stage RDD sample of 240 adults; unequal probability design. (1982)
- (14) California Health Risk Assessment Survey: Telephone interview survey; stratified Waksberg three-stage RDD sample of 1,500 adults; unequal probability design. (1982)
- (15) Hawaii Health Risk Assessment Survey: Telephone interview survey; stratified Waksberg three-stage RDD sample of 1,000 adults; unequal probability design. (1982)
- (16) North Carolina Memorial Hospital Community Awareness Surveys II-IV: Telephone interview survey; Waksberg three-stage RDD samples of 350 adults; unequal probability design (1983, 1986, 1989, 1992, 1994)
- (17) National Supplementary Health Risk Assessment Survey: Telephone interview survey; stratified Waksberg three-stage RDD sample of 750 adults; unequal probability design. (1983)
- (18) Second Egypt Contraceptive Prevalence Survey: Personal interview survey; stratified multi-stage sample of 10,000 women age 15-49 years; PPS systematic selection of administrative areas (urban) and villages (rural); area listings used to select dwellings; equal probability design. (1983)
- (19) North Carolina Survey of Childhood Injury (with J. Michael Bowling): Telephone interview survey; stratified Waksberg three-stage RDD sample of 1,000 adults; unequal probability design. (1984)
- (20) Survey of Physicians Referring Patients to North Carolina Memorial Hospital: Telephone interview survey; stratified list sample of 400 physicians; unequal probability design. (1984)
- (21) Survey of black policyholders for the Self-help Quit Smoking Study: Mail survey; stratified list sample of 4,000 policyholders from a duplicate-removed list of policies at the North Carolina Mutual Insurance Company; equal probability design. (1985)
- (22) Survey of school children in public schools for the North Carolina School Oral Health Survey (with J. Michael Bowling): Examination survey; stratified one-stage cluster sample of 10,400 school-age children using classrooms as the cluster; equal probability design. (1986)
- (23) Contraceptive Prevalence Survey in Honduras: Personal interview survey; stratified two-stage sample of 10,000 households, with PPS systematic sampling of local geo-political area units as PSUs and created segments as SSUs; equal probability design. (1986)

- (24) National Survey of Missing Children: Telephone/mail survey; disproportionate stratified list sample of 800 law enforcement agencies; unequal probability design. (1987)
- (25) Atherosclerosis in Communities Study; Jackson, Mississippi (with David A. Walsh): Personal interview survey; stratified list sample of 4,000 blacks aged 45-64 years with drivers license registration list as the sampling frame; unequal probability design. (1987)
- (26) Piedmont Dental Survey: Examination survey; two-phase subsample of 1,000 persons 65 and older for a dental interview and examination from a stratified three-stage area sample of households in five central North Carolina counties; dentates oversampled through household screening; unequal probability design. (1987)
- (27) National Longitudinal Survey of Pregnancy and Childbirth: Personal interview/records abstraction survey; stratified three-stage sample of 20,000 pregnant women designed for a planned study of prenatal morbidity and outcome; county groups (stratified by region and urbanization), physician practices (stratified by primary specialty), and time periods as sampling units in the three stages, respectively; unequal probability design. (1988)
- (28) National Migrant Survey (with Rebecca Parker): Personal interview survey; stratified four-stage sample of unspecified size for a future personal interview survey of migrant and seasonal farmworkers; county groups, migrant camps and individual housing units as sampling units through the first three stages, with time-dimension sampling applied to deal with migrant mobility in identifying selected individuals in the final stage; unequal probability design. (1989)
- (29) National Teenage Pregnancy Survey: Personal interview survey; stratified three-stage sample of 20,000 7th-11th graders selected through an in-school screen to oversample key subgroups; county groups as PSUs and linked samples of 200 secondary and feeder middles schools as SSUs; unequal probability design. (1989)
- (30) AIDS Education and Health Care Workers Survey (with Linda Sanders): Telephone interview survey; proportionately stratified modified Waksberg three-stage RDD sample of 1,150 adults; stratification by time zone; unequal probability design. (1991)
- (31) North Carolina Physician Surveillance Survey (with Linda Sanders): Mail survey; disproportionately stratified list sample of 1,200 primary care physicians; stratification by primary specialty; unequal probability design. (1991)
- (32) North Carolina Low Back Pain Prevalance Survey: Telephone interview survey; unstratified three-stage modified Waksberg design of 2,500 adults; unequal probability design. (1991)
- (33) Russian Republic Longitudinal Monitoring Survey. Personal interview for periodic household surveys of the civilian, noninstitutionalized population in the Russian republic; proportionately stratified three-stage sample of 5,000 households; cities and Rayon as PSUs, voting districts as SSUs, and voter addresses as TSUs; PSU stratification by region and percent urban; unequal probability design. (1992)
- (34) North Carolina Automobile Inspection and Maintenance Audit Survey: Record check survey; stratified three-stage sample of about 1,200 automobile; proxy PPS sampling of area grids as PSUs with selection of a single subgrid as SSU; route sampling of automobiles (as TSUs) within grid areas, using the last three digits of the serial ID as the basis for randomization; unequal probability design. (1993)
- (35) North Carolina Five-a-Day Study: Nutrition intervention assessment with followup and aimed at African-Americans living in 10 rural eastern North Carolina counties; stratified one-stage cluster sample of 3,750 church members with church as the PSU and county and church membership as stratification criteria; PPS selection of 100 churches with reported membership as the size measure; unequal probability design. (1993)
- (36) National Rural Hospital Survey: Telephone interview survey; stratified four stage sample of approximately 10,000 adults living in rural communities with a hospital; community is the PSU

and a three-stage Waksberg RDD sample of adults (one per household) constitute the last three stages; PPS selection of communities within community strata defined by the economic status of the hospital and using community 1990 total population as the size measure; approximately 100 adult respondents in each of 100 sample communities; unequal probability design. (1994)

- (37) Charlotte Health Care Network Study: Telephone interview surveys in seven rural communities surrounding the Charlotte area; unstratified three-stage Waksberg RDD telephone sample of 250-350 adult residents; unequal probability design (1994)
- (38) North Carolina Health Profile; Round 1 (with Delton Atkinson and Ira Kaufman): Telephone interview survey; regionally stratified three-stage Waksberg RDD telephone sample of 2,757 households, with separate modules for a single random adult (n=2,575), a single random child under the age of 18, if present (n=1,077) and a single random child under age 6, if present (n=421); disproportionate allocation among three regions to produce approximately equal sample sizes, unequal probability design. (1994-1995)

North Carolina High School Sports Injury Survey: Face-to-face and record abstraction survey; stratified two-stage sample of 15,000 athletes for each of three consecutive school years; Stratified PPSWOR (Sampford's algorithm) of 100 schools (PSUs), stratification by school size classification, region of the state, and qualifications of school's athletic trainer (size measure as the number of sports teams); simple systematic sample of 6 sports teams in each school, implicitly stratified by type and participant gender; equal probability design. (1996)

National Kindergarten Transition Study: Mail survey done by Frank Porter Graham to profile strategies used by kindergarten teachers to help their students with the transition to subsequent grades; disproportionately stratified sample of 5,000 kindergarten teachers in U.S.; stratification by population density, percentage in poverty, and percent minority for the area surrounding the school; unequal probability design. (1996)

National Best Practices in Child Care Survey: Mail survey done by Frank Porter Graham to profile the teaching practices of day care workers, to identify those seen as most effective; disproportionately stratified sample of 2,500 day care workers in U.S.; stratification by center enrollment and type of institutional setting; unequal probability design. (1997)

National Health Directors Report Card Indicators Study: Mail survey to develop a model report card of community health; disproportionately stratified sample of 365 community health directors; stratification by type and size of jurisdiction; unequal probability design. (1997)

North Carolina Smart Start Evaluation Study: Mail survey done by Frank Porter Graham to assess the skills level of children entering kindergarten in the 55 North Carolina counties with the Smart Start program to prepare pre-school age students for grade school; stratified two stage unequal probability sample of kindergarten students in the Smart Start counties; kindergarten classes as PSU, and student as SSU; unequal probability design. (1997)

Wake County Community Assessment Survey: Telephone interview survey, assessing the attitudes and behaviors related to social and health issues in the county; geographically stratified list-assisted RDD telephone sample of 1,000 adult residents; proportionate allocation among eight strata defined by community; unequal probability design with selection of one child respondent per household. (1998)

American Cancer Survey Sun Exposure/Protection Survey: Telephone interview survey; regionally stratified list-assisted RDD and age-targeted telephone sample of 1,000 child/parent pairs, with separate modules for 11-18 years olds and their in-household primary caregiver; proportionate allocation among seven regional strata defined according to levels of exposure to ultraviolet radiation; unequal probability design with selection of one child respondent per household. (1998)

Youth Tobacco Surveys (with W. Warren and K. Beckett): Self-administration of student interviews within schools; assistance with design development in a number of U.S. states as part of a

national system of statewide surveys of 1,500-10,000+ students, regionally stratified PPS systematic sample of middle and/or high schools within states; proportionate allocation when priority to statewide estimates and balanced allocation when priority given to producing regional estimates, sampling of students within schools through selection of 2nd period classes. (1999-date)

C. Published Papers (Refereed)

- (1) Rogers, W. Todd, Ralph E. Folsom, William D. Kalsbeek, and Anne Clemmer, "Assessment of Nonresponse Bias in Sample Surveys: An Example from National Assessment," Journal of Educational Measurement, Volume 14, No. 4, pp. 297-311, 1977.
- (2) Kalsbeek, William D., and Judith T. Lessler, "Total Survey Design: Effects of Nonresponse Bias and Procedures for Controlling Measurement Errors," Proceedings of the Second Biennial Conference on Health Survey Research Methods, pp. 19-42, April 1977.
- (3) Kalsbeek, William D., and Tyler D. Hartwell, "Head and Spinal Cord Injuries: A Pilot Study of Morbidity Survey Procedures," American Journal of Public Health, Vol. 67, No. 11, pp. 1051-1057, November 1977.
- (4) Cohen, Steven B., and William D. Kalsbeek, "Estimation and Sampling Variances in the National Medical Care Expenditure Survey," NCHSR Technical Reports, Series A, No. 2, June 1981.
- (5) Anderson, Dallas A., William D. Kalsbeek, and Tyler D. Hartwell, "The National Head and Spinal Cord Injury Survey: Design and Methodology," Journal of Neurosurgery, Vol. 53, pp. S11-S18, November 1980.
- (6) Kalsbeek, William D., Robert L. McLaurin, and Benjamin S.H. Harris, "The National Head and Spinal Cord Injury Survey: Major Substantive Findings," Journal of Neurosurgery, Vol. 53, pp. S19-S31, November 1980a.
- (7) Anderson, Dallas A., and William D. Kalsbeek, "The National Head and Spinal Cord Injury Survey: Assessment of Some Uncertainties Affecting the Findings," Journal of Neurosurgery, Vol. 53, pp. S32-S34, November 1980b.
- (8) Quade, Dana, David H. Culver, Robert W. Haley, Frederick S. Whaley, William D. Kalsbeek, C. David Hardison, Robert E. Johnson, Richie C. Stanley, and Richard H. Schachtman, "The SENIC Sampling Process: Design for Choosing Hospitals and Patients and Results of Sample Selection," American Journal of Epidemiology, Vol. III, No. 5, pp. 486-502, 1980.
- (9) Cross, Anne R. and William D. Kalsbeek, "The Challenge of Surveying Nomads on the Move," Intercom, Vol II, No. 42, January/February pp. 11-13, 1983.
- (10) Kalsbeek, William D., "Measures of Sampling Error in POPLAB Demographic Surveys," POPLAB Scientific Report Series, No. 37, May 1983.
- (11) James, Sherman E., Susan A. Hartnett, and William D. Kalsbeek, "John Henryism and Blood Pressure Differences Among Black Men," Journal of Behavioral Medicine, Vol. 6, pp. 259-278, 1983.
- (12) Anderson, Dallas W., J. Douglas Miller, and William D. Kalsbeek, "Findings from a Major U.S. Survey of Persons Hospitalized with Head Injuries." Public Health Reports, Vol. 98, No. 5, pp. 475-478, 1983.
- (13) Kalsbeek, William D., Ophelia M. Mendoza, and David V. Budescu. "Cost Models for Optimum Allocation in Multi-Stage Sampling," Survey Methodology, Vol. 9, No. 2, pp.154-177, 1983.

- (14) Gentry, Eileen M., William D. Kalsbeek, Gary C. Hogelin, Jack T. Jones, Karen L. Gaines, Michele R. Forman, James S. Marks, and Frederick L. Trowbridge. "The Behavioral Risk Factor Surveys: II. Design, Methods, and Estimates from Combined State Data," American Journal of Preventive Medicine, Vol. 1, No. 6, pp. 9-14, 1985.
- (15) Fulwood, Robinson, William D. Kalsbeek, Basil Rifkind, Ronette Russell-Briefel, Richard Muesing, John LaRosa, and Kenneth Lippel. "Total Serum Cholesterol Levels of Adults 20-74 Years of Age: United States, 1976-80." Vital and Health Statistics, Series 11, No. 236, 1986.
- (16) Kahn, Joan R., William D. Kalsbeek, and Hofferth, Sandra L. "National Estimates of Teenage Sexual Activity: Evaluating the Comparability of Three National Surveys." Demography Vol. 25, No. 2, pp.189-204, 1988.
- (17) Peoples-Sheps, Mary D., William D. Kalsbeek, and Earl Siegel. "Why We Know So Little About prenatal Care Nationwide: An Assessment of Required Methodology," Health Services Research, Vol. 23, No.3, pp.359-380, 1988.
- (18) Kalsbeek, William D., Kenneth M. Kral, Robert B. Wallace, and Basil M. Rifkind. "Comparing Mean Levels of Total Cholesterol from Visit 1 of the Lipid Research Clinics Prevalence Study with the Second National Health and Nutrition Examination Survey," American Journal of Epidemiology, Vol. 128, No. 5, pp. 1038-1053, 1988.
- (19) Orleans, C. Tracy, Victor J. Schoenbach, Mary A. Salmon, Victor J. Strecher, William D. Kalsbeek, Dana Quade, Edward F. Brooks, T. Robert Konrad, Charles Blackmon, and Charles D. Watts. "A Survey of Smoking and Quitting Patterns Among Black Americans," American Journal of Public Health, Vol. 79, No. 2, pp. 176-181, 1989.
- (20) Weissert, William G., Jennifer M. Elston, Elise J. Bolda, Cynthia M. Cready, William N. Zelman, Phil D. Sloane, William D. Kalsbeek, Elizabeth Mutran, Thomas H. Rice, and Gary G. Koch. "Models of Adult Day Care: Findings from a National Survey," The Gerontologist, Vol. 29, No. 5, pp. 641-649, 1990.
- (21) Straus, M., J. Gong, B.D. Gary, W.D. Kalsbeek, and S. Spear. "The Cost of Home Air Fluidized Therapy for Pressure Sores," The Journal of Family Practice, Vol. 33, No. 1, pp.52-59, 1991.
- (22) Peoples-Sheps, M.D. and W.D. Kalsbeek, E. Siegel, D. Dewes, M. Rogers, and R. Schwartz. "Prenatal Records: A National Survey of Content." American Journal of Obstetrics and Gynecology. Vol. 164, No. 2, pp.514-521, 1991.
- (23) Kalsbeek, W.D., J.M. Bowling, and P.D. Morris. "Choosing Criteria to Screen for Specific Medical Conditions from Nonspecific Sources: An Application to Injury Surveillance," American Journal of Epidemiology, Vol. 135, No. 5, 552-562, 1992.
- (24) Linn, S. R. Fulwood, M. Carroll, J.G. Brooks, C. Johnson, W.D. Kalsbeek, and B.M. Rifkind. "Serum Total Cholesterol: HDL Cholesterol Ratios in U.S. White and Black Adults by Selected Demographic and Socioeconomic Variables (HANES II)," American Journal of Public Health, Vol. 81, No. 8, pp.1038-1043, 1992.
- (25) Linn S., M. Carol, C. Johnson, R. Fulwood, W. Kalsbeek and R. Briefel, "The Association of Serum High Density Lipoprotein Cholesterol and Alcohol Consumption in U.S. White and Black Adults," American Journal of Public Health, Vol. 83, No. 6, pp. 811-816, 1993.
- (26) Carey T.S., A. T. Evans, N. M. Hadler, G. Janic, W.D. Kalsbeek, A. Jackman and J. Fryer. "Acute Severe Low Back Pain: A Population-Based Study of Prevalence and Care Seeking". Spine. Vol 21, No 3, pp 339-344, 1996.
- (27) Carey T.S., A. Evans, N. Hadler, W.D. Kalsbeek, C. McLaughlin, and J. Fryer. "Care-Seeking Among Individuals with Chronic Low Back Pain". Spine, Vol. 20, No.3, pp. 312-317, 1994.

- (28) Kalsbeek W.D., S.L. Botman, and J.T. Massey. "Cost Efficiency and the Number of Allowable Call Attempts in the National Health Interview Survey," Journal of Official Statistics. Vol. 10, No.2, pp.133-153, 1994.
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- Lesser, V.M. and W. D. Kalsbeek . "A Comparison of Periodic Survey Designs Employing Multi-Stage Sampling," Environmental and Ecological Statistics, 4:117-130, 1997.
- Spencer, D.L., S.R. Reed, D. Atkinson, and W.D. Kalsbeek, "Design of a Survey to Inform State Health Decision Making: A Collaborative Effort," American Journal of Preventative Medicine, 13:69-74, 1997.
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- Weaver, N.L., Mueller, F.O., Kalsbeek, W.D., and Bowling, J.M. (1999). "The North Carolina High School Athletic Injury Study: Design and Methodology." Medicine and Science in Sports and Exercise, 31(1): 176-182.
- Kalsbeek, W and Heiss, G. (2000). "Building Bridges Between Populations and Samples in Epidemiological Studies," Annual Review of Public Health, 21:1-23.

D. Books and Monographs

- (1) Lessler, J.T. and W.D. Kalsbeek. Nonsampling Errors in Surveys. New York: Wiley and Sons, 1992.
- Kalsbeek, W. D. "Design for a National Health Care Data System." In Toward a National Health Care Survey: A Data System for the 21st Century, G. Wunderlich, (Ed.), National Research Council,

Institute of Medicine, Panel on the National Health Care Survey, National Academy Press, Washington, D.C., 1992

Kalsbeek, W. D. "Sampling," in Epidemiological Issues in the Oral Health of Black Americans: Methodology for Need and Risk Assessment, E. Taylor (ed.), National Institute of Dental Research, Bethesda, MD, 1992.

Committee to Review the Social Security Administration's Disability Decision Process Research, A Framework for Disability Decision Process Research, Wunderlich, G.S. and Kalsbeek, W.D. (Eds.), National Research Council, Institute of Medicine, National Academy of Sciences, National Academy Press, Washington, D.C. 1998.

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E. Published Papers (Nonrefereed)

- (1) Kalsbeek, William D., Ralph E. Folsom, Jr., and Anne Clemmer, "The National Assessment No-Show Study: An Examination of Nonresponse Bias," Proceedings of the Social Statistics Section, pp. 180-189, American Statistical Association, 1974.
- (2) Kalsbeek, William D., "Results from a Pilot Study of Several Methodological Problems Associated with Case-finding Surveys," Proceedings of the Social Statistics Section, pp. 28-37, American Statistical Association, 1975.
- (3) Cohen, Steven B., William D. Kalsbeek, and Gary G. Koch, "An Alternative Strategy for Estimating the Parameters of Local Areas," Proceedings of the Social Statistics Section, pp. 781-785, 1977.
- (4) Kalsbeek, William D., and Steven B. Cohen, "Disproportionate Sampling in the National Medical Expenditure Survey," Proceedings of the Social Statistics Section, pp. 276-281, American Statistical Association, 1978.
- (5) Kalsbeek, William D., "A Conceptual Review of Survey Error Due to Nonresponse," Proceedings of the Section on Survey Research Methods, pp. 131-136, American Statistical Association, 1980.
- (6) Kalsbeek, William D., Ophelia M. Mendoza, and David V. Budescu, "A New Cost Model for Optimum Allocation in Two-Stage Sampling," Proceedings of the Section on Survey Research Methods, pp. 55-60, American Statistical Association, 1981.
- (7) Kalsbeek, William D., "Discussant Comments: Nonresponse in Sample Surveys," Proceedings of the Section on Survey Research Methods, pp. 276-278, American Statistical Association, 1981.
- (8) Brooks, Camilla A., and William D. Kalsbeek, "The Double Sampling Scheme and Its E(MSE)," Proceedings of the Section on Survey Research Methods, pp. 235-239, American Statistical Association, 1982.
- (9) Kalsbeek, William D., and Anne R. Cross, "Problems in Sampling Nomadic Populations," Proceedings of the Section on Survey Research Methods, pp. 398-402, American Statistical Association, 1982.
- (10) Cochrane, Susan H., William D. Kalsbeek, and Jeremiah M. Sullivan, "Procedures for Collecting and Analyzing Mortality Data in Living Standards Measurement Studies," LSMS Working Paper Series, No. 16, Development Research Center, The World Bank, June 1982.
- (11) Mendoza, Ophelia M., and William D. Kalsbeek, "A Comparison of Alternative Variance

- Estimators in Demographic Surveys," Proceedings of the Section on Survey Research Methods, pp. 332-336, American Statistical Association, 1983.
- (12) Kalsbeek, William D. "Combining Theory and Practice in a First Course on Survey Methods," Proceedings of the Section on Survey Research Methods, American Statistical Association, pp. 260-265, 1985.
 - (13) Kalsbeek, William D. "Nomad Sampling: An Analytic Study of Alternative Design Strategies," Proceedings of the Section on Survey Research Methods, American Statistical Association, pp. 164-169, 1986.
 - (14) Kalsbeek, William D., Sharon Y. Cornell, and Patricia S. Tennis. "On Developing a National Sample of Women Early in Pregnancy," Proceedings of the Section on Survey Research Methods, American Statistical Association, pp. 720-725, 1987.
 - (15) Kalsbeek, William D. "Design Strategies for Nonsedentary Populations," Proceedings of the Section on Survey Research Methods, American Statistical Association, pp. 28-37, 1988.
 - (16) Kalsbeek, William D., Steven L. Botman, and James T. Massey. "Cost-Efficiency and the Number of Allowable Callbacks in the National Health Interview Survey," Proceedings of the Section on Survey Research Methods, American Statistical Association, pp. 176-181, 1989.
 - (17) Sanders, L.L. and W.D. Kalsbeek. "Network Sampling as an Approach to Sampling Pregnant Women". American Statistical Association, Proceedings of the Section on Survey Research Methods, pp. 326-331, 1990.
 - (18) Kalsbeek, W.D., D. A. Weigle, N. J. Allred, and P. Liu. "A Comparison of Survey Designs for Estimating Childhood Immunization Rates," American Statistical Association, Proceedings of the Section on Survey Research Methods, pp. 175-181, 1991.
 - (19) Kalsbeek, W.D. "Discussion: Issues in Survey Participation," American Statistical Association, Proceedings of the Section on Survey Research Methods, pp. 108-110, 1991.
 - (20) Lesser, V. M. and W.D. Kalsbeek. "A Comparison of Periodic Survey Designs Employing Multi-Stage Sampling," American Statistical Association, Proceedings of the Section on Survey Research Methods, pp. 186-190, 1991.
 - (21) Kalsbeek W.D., J.A. Dever, L.L. Sanders, and E. Bennett. "An Assessment of Alternative Designs for Doing Physician Surveillance Surveys", American Statistical Association, Proceedings of the Section on Survey Research Methods, pp. 256-261, 1992.
 - (22) Kalsbeek W.D. and M.J. Mancewicz. "Sampling Prenatal Care Providers from a Frame of Physicians," American Statistical Association, Proceedings of the Section on Survey Research Methods, pp. 206-211, 1993.
 - (23) Kalsbeek, W.D. and Todd A. Durham. "Nonresponse and Its Effects in a Followup Telephone Survey of Low Income Women," American Statistical Association, Proceedings of the Section on Survey Research Methods, pp. 943-948, 1994.
 - (24) Kalsbeek, W.D. and Scott E. Joens. "Cost-Effectiveness and Advance Mailings in a Telephone Followup Survey," American Statistical Association, Proceedings of the Section on Survey Research Methods, pp. 204-209, 1995.
- Kalsbeek, W.D. "The Computer Program Called *Sample*: A Teaching Tool to Demonstrate Some Basic Concepts of Sampling (Version 1.01)," American Statistical Association, Proceedings of the Section on Statistical Education, pp. 103-108, 1996.
- Brock, S.P., J.V. Mauney, and W.D. Kalsbeek. "Unintentional Crossover Effects in Community Intervention Studies: Evidence from a Nutrition Survey Aimed at African Americans." American Statistical Association, Proceedings of the Section on Survey Research Methods, pp. 667-672,

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Lesser, V.M. and W.D. Kalsbeek. "Nonsampling Error Considerations in Environmental Surveys." American Statistical Association, Proceedings of the Section on Survey Research Methods, pp. 96-104, 1997.

Kalsbeek, W.D. and J. V. Mauney. "Statistical Implications of Assignment Contamination in Community Intervention Trials." American Statistical Association, Proceedings of the Epidemiology Section, pp. 128-133, 1998.

Ahmed, W.M. and W.D. Kalsbeek. "An Analysis of Telephone Call History Data from the Behavioral Risk Factor Surveillance System." American Statistical Association, Proceedings of the Section on Survey Research Methods, pp.224-229, 1998.

Kalsbeek, W.D., Odom, D., and Sutton, B., (1999). "Process Effects on Telephone Calling Outcomes in the Behavioral Risk Factor Surveillance System," Proceedings of the Section on Survey Research Methods, 1999 (forthcoming)

F. Unpublished Papers and Other Creative Activities

- (1) Kalsbeek, William D., A Method for Obtaining Local Postcensal Estimates for Several Types of Variables, Doctoral dissertation, Department of Biostatistics, University of Michigan, Ann Arbor, Michigan, 1973.
- (2) Kalsbeek, William D., and James R. Chromy, "A Study of Tax Structures and Rate Schedules for the Commonwealth of Virginia," Research Triangle Institute: Final Report, 1974.
- (3) Kalsbeek, William D., Anne F. Clemmer, and Ralph E. Folsom, Jr., "National Assessment of Educational Progress: No-Show Analysis," Research Triangle Institute: Final Report 255U-1061-3, April 1975.
- (4) Kalsbeek, William D., Charles F. Powers, Henrick J. Harwood, Benjamin S.H. Harris, III, James R. Batts, Tyler D. Hartwell, and Thomas H. Rice, "Survey of the Incidence, Prevalence, and Costs of Head and Spinal Cord Injury," Research Triangle Institute: Final Report 255U-1033, July 1977.
- (5) Kalsbeek, William D., "Final Sampling Design: National Medical Care Expenditure Survey," Research Triangle Institute: Working Paper 254U-1320, December 1977.
- (6) Kalsbeek, William D., "Course Notes to BIOS 164: Introduction to Sample Survey Methodology," Department of Biostatistics, University of North Carolina, Chapel Hill, April 1979.
- (7) Kalsbeek, William D., and Dennis G. Gillings, "Introduction to Sample Survey Methods," Notes for a one-week workshop on sample survey methods, conducted initially in May 1979, University of North Carolina, Chapel Hill.
- (8) Kalsbeek, William D., "A Conceptual Review of Error Due to Nonresponse," Error Taxonomy Project, December 1979.
- (9) Kalsbeek, William D., "Course Notes to BIOS 264: Advanced Sample Survey Methods," Department of Biostatistics, University of North Carolina, Chapel Hill, December 1979.
- (10) Kalsbeek, William D., and Robert E. Johnson, "Extrapolation as an Adjustment for Nonresponse in Surveys," unsolicited working paper, December 1981.
- (11) Kalsbeek, William D., "Statistical Sections of a Telephone Interview Survey Procedural Manual," Programmed self-instruction manual for use by those conducting telephone random

digit dialing surveys, April 1982.

- (12) Kalsbeek, William D., Robert T. Benton, and James R. Chromy, "Probability Sampling as a Basis for Analyzing Tax Data," unsolicited working paper, December 1982.
 - (13) Kalsbeek, William D., "A Rough and Ready Estimate of Intraclass Homogeneity," unsolicited working paper, December 1982.
 - (14) O'Brien, Kevin F., William D. Kalsbeek, and C.M. Suchindran, "Variance Estimates for Life Table Functions Computed from Complex Survey Data," unsolicited working paper, June 1982.
 - (15) Kalsbeek, William D. and Rebecca Parker. "Design Study of Methods for Sampling Migrant and Seasonal Farm Workers," Final report for a grant from the Milbank Fund, 1989.
 - (16) Kalsbeek, William D., J. Michael Bowling, and David H. Jolly. "Knowledge and Attitudes about AIDS among North Carolina Adults," North Carolina Division of Statistics and Information Services Mimeo Series, Number 54, 1990.
 - (17) Kalsbeek, W.D. "Judging the Quality of Surveys," the fourth pamphlet in the "What Is a Survey?" series of informational brochures on survey research, Section on Survey Research Methods, American Statistical Association, 1995.
 - (18) Hoffman, Donna. L., William D. Kalsbeek, and Thomas P. Novak. Internet Use in the United States: 1995 Baseline Estimates and Preliminary Market Segments. Project 2000 Working Paper, Owen Graduate School of Management, Vanderbilt University, on the Worldwide Web at www2000.ogsm.vanderbilt.edu/baseline/1995.Internet.estimate.html, Nashville, Tennessee, April 1996.
- Kalsbeek, W.D., L.L. Sanders, H. Zayed, E. Frasier, and D.L. McQueen, "Mixed Intensity Calling Strategies in Telephone Surveys of the General Population," Working Paper No. 2, Behavioral Risk Factor Surveillance System, January 1997.
- Kalsbeek, W.D. (1997). "Survey Integration: Initiatives in Health Data," Discussant comments for COPAFS Federal Statistics Meeting, Washington, DC, November 13, 1996
- Kalsbeek, W.D., and Ahmed, W. M.(1997a). *Task 2: An Assessment of Stage One Sampling and Weights, National Hospital Prevalence Study*, Working Paper, National Institute of Alcohol Abuse and Alcoholism, Under Contract N01AA71006, September 5, 1997.
- Kalsbeek, W.D., and Ahmed, W. M. (1997b). *Task 3 An Assessment of Stage Two Sampling and Weight, National Hospital Prevalence Study*, Working Paper, National Institute of Alcohol Abuse and Alcoholism, Under Contract N01AA71006, November 25, 1997.
- Kalsbeek, W.D (1998). *Two Alternative Sample Designs for a National Youth Tobacco Surveillance System*, Technical Working Paper. Prepared for the Centers for Disease Control, Office of Smoking and Health, January 31, 1998.
- Kalsbeek, W.D., and Ahmed, W. M. (1998). *Task 4: An Assessment of Stage Three Sampling and Weights, and TASK 5: Statistical Specification for Analysis Software for the National Hospital Prevalence Study*, Working Paper, National Institute of Alcohol Abuse and Alcoholism, Under Contract N01AA71006, April 15, 1998.

G. Miscellaneous Invited Lectures, Presentations, and Scientific Meetings

- Kalsbeek, William D., "Statistical Reporting," Invited paper at the Annual Meeting of the North Carolina Medical Records Association, May 1976.
- Kalsbeek, William D., "Uses of Sampling in Producing Public Health Morbidity Statistics," Invited

Lecture presented at the Annual Meeting of the Statistics and Epidemiology Section of the North Carolina Public Health Association, August 1975.

Kalsbeek, William D., "Problems Related to Obtaining National Morbidity Estimates from a Sample Survey," Talk presented to the North Carolina Chapter of the American Statistical Association, September 1977.

Cohen, Steven B., Gary G. Koch, and William D. Kalsbeek, "Synthetic Estimation: A Review of the State of the Field," Paper presented to the Social Science Research Council, Washington, 1978.

Cohen, Steven B., and William D. Kalsbeek, "Some Statistical Implications on Analysis of the National Medical Care Expenditure Survey," Paper presented at the 106th Annual Meeting of the American Public Health Association, Statistics Section, Los Angeles, California, October 1978.

Kalsbeek, William D., "National Medical Care Expenditure Survey: Sample Selection from a Computer Listing of Households," Paper presented at the Spring meeting of the Eastern North American Region of the Biometric Society, New Orleans, April 1979.

Kalsbeek, William D. Invited discussant for sessions at the Conference on Health Survey Research Methods, 1979, 1989.

Kalsbeek, William D., Robert L. McLaurin, Benjamin S.H. Harris, and J. Douglas Miller, "National Head and Spinal Cord Injury Survey: Major Findings," Paper presented at the 108th Annual Meeting of the American Public Health Association, Detroit, Michigan, October 1980.

Kalsbeek, William D. Invited discussant for sessions at the Annual Meetings of the American Statistical Association, 1981, 1989, 1991.

Rochon, James, and William D. Kalsbeek, "Variance Estimation from Multi-stage Sample Survey Data: The Jackknife Repeated Replicate Approach," Paper presented at the SUGI 83 Conference, New Orleans, Louisiana, January 1983.

Kalsbeek, William D. "Analysis in Sample Surveys," Invited lecture given at the Centers for Disease Control, Atlanta, Georgia, February 1984.

Clemmer, Anne F. and William D. Kalsbeek, "Imputing Rates of Homogeneity in Multi-Stage Samples," Paper presented at the Eastern North American Region Meetings of the Biometrics Society, Raleigh, North Carolina, 1985.

Kalsbeek, William D. "Analysis of Temporal Trends from Periodic Survey Data," Invited presentation given at the Health Education/Behavioral Risk Factor National Conference, Atlanta, Georgia, May 1986.

Kalsbeek, William D. "AIDS Issues Involving Women and Children: A Summary of Findings from the 1987 Survey of Knowledge and Attitudes Among North Carolina Adults," Presentations made at the UNC-CH School of Public Health Alumni Conference, 1987, 1988.

Kalsbeek, William D. "Design Issues for Surveys of Migrant Farm Workers," Invited presentation made at the National Migrant Health Conference sponsored by the National Association of Community Health Centers, Indianapolis, Indiana, 1989.

Kalsbeek, William D. "Data Needs for Prevention of Head and Spinal cord Injury," Invited presentation made to the Injury Prevention Research Center's Database Forum on Head and Spinal Cord Injury, Research Triangle Park, North Carolina, 1989.

Kalsbeek, W.D. "The BRFSS: Basic Sampling Issues," Invited presentation made at the Behavioral Risk Factor Surveillance System Annual Conference, Atlanta, Georgia, 1990.

Kalsbeek, W.D. "Standardized State Estimates for the BRFSS," Invited presentation made at the Behavioral Risk Factor Surveillance System Annual Conference, Atlanta, Georgia, 1991.

Kalsbeek, W.D. "Aggregating BRFSS Data," Invited presentation made at the Behavioral Risk Factor Surveillance System Annual Conference, Atlanta, Georgia, 1992.

Kalsbeek, W.D. "Current BRFSS Sampling Questions and Issues," Invited presentation made at the Behavioral Risk Factor Surveillance System Annual Conference, Atlanta, Georgia, 1993.

Kalsbeek, W.D. "Small Area Estimates," Invited presentation made at the Behavioral Risk Factor Surveillance System Annual Conference, Atlanta, Georgia, 1995.

Kalsbeek, W.D. "Remarks on Teaching Survey Sampling," Presented for an invited panel discussion session on the teaching of survey sampling, American Statistical Association annual meetings, Houston, Texas, August, 1995.

Kalsbeek, W.D. "Findings from Studies on Winddown and Call Sequence Studies," Invited presentation made at the Behavioral Risk Factor Surveillance System Annual Conference, Atlanta, Georgia, 1996.

Kalsbeek, W.D. "Discussant Comments: Session on *Survey Integration: Initiatives in Health Data*, Council of Professional Associations on Federal Statistics, Bethesda, MD, November 1996.

Kalsbeek, W.D. "Quality Control in the BRFSS," Invited presentation made at the Behavioral Risk Factor Surveillance System Annual Conference, Tampa, Florida, 1997.

Kalsbeek, W.D., Groves, R.M., and Scheuren, F.J. "Survey Literacy for the 21st Century," Invited poster session presented at the Joint Statistical Meetings, American Statistical Association, Anaheim, California, 1997.

Kalsbeek, W.D. and Ahmed, W. "Some Early Findings from an Analysis of BRFSS Call History Data," Invited presentation made at the Behavioral Risk Factor Surveillance System Annual Conference, Atlanta, Georgia, 1998.

Kalsbeek, W.D., and Odom, D.M. "Process Effects on Telephone Calling Outcomes in the Behavioral Risk Factor Surveillance System," Invited presentation made at the Behavioral Risk Factor Surveillance System Annual Conference, Minneapolis, Minnesota, 1999.

Kalsbeek, W.D., Odom, D., and Sutton, B., (1999). "Process Effects on Telephone Calling Outcomes in the Behavioral Risk Factor Surveillance System," Proceedings of the Section on Survey Research Methods, 1999 (forthcoming)

VII. Community Service Activities

A. Professional Consultation

- (1) Sampling Consultant: Agency for Health Care Policy Research (formerly National Center for Health Services Research), Rockville, MD. (1978-81; 1983-present)
- (2) Sampling Consultant: National Institute of Neurological and Communicative Disorders and Stroke, Bethesda, MD. (1978-1981)
- (3) Statistical Consultant: Eastern North Carolina Professional Services Review Organization, New Bern, NC. (1978-1980)
- (4) Sampling Consultant: Research Triangle Institute, RTP, NC. (1978-)
- (5) Sampling Consultant: Centers for Disease Control, Family Planning Evaluation Division, Atlanta, GA. (1979-1984)

- (6) Statistical Consultant: Durham (N.C.) County Attorney's Office, Durham, NC. (1979)
- (7) Survey Methods Consultant: North Carolina Department of Human Resources, Raleigh, NC. (1979; 1983-)
- (8) Sampling Consultant: North Carolina Office of State Budget and Management, Raleigh, NC.. (1979; 1982-1985)
- (9) Sampling Consultant: Department of Health, Commonwealth of Virginia, Richmond, VA. (1980)
- (10) Survey Methods Consultant: World Bank, New York, NY. (1981-1982; 1992)
- (11) Survey Methods Consultant: Orange County Health Department, Hillsborough, NC. (1981)
- (12) Survey Methods Consultant: University of South Carolina, School of Public Health, Columbia, SC. (1982)
- (13) Survey Methods Consultant: Defenders of Wildlife, Washington, DC. (1982)
- (14) Survey Methods Consultant: Veterans Administration, Medical District 7, Richmond, Virginia (1982-1983)
- (15) Survey Methods Consultant: North Carolina Memorial Hospital, Chapel Hill, NC. (1981-1986, 1989)
- (16) Sampling Consultant: Westinghouse Health Systems, Baltimore, MD. (1983-1984)
- (17) Sampling Consultant: Centers for Disease Control, Veneral Disease Control Division, Atlanta, GA (1983, 1987-1989)
- (18) Sampling Consultant: New York City Health Department, New York, NY. (1984-1985)
- (19) Sampling Consultant: Veterans Administration, Central Office, Washington, DC (1984-1990); 1995-)
- (20) Sampling Consultant: Little Rock Veterans Administration Hospital, Little Rock, AR. (1984-1985)
- (21) Survey Methods Consultant: Lewin ICF, Inc.(Lewin and Associates), Washington, DC (1985-1991)
- (22) Sampling Consultant: Family Health International, RTP, NC (1985-1988; 1991)
- (23) Sampling Consultant: Pedco Environmental, Durham, NC. (1985)
- (24) Sampling Consultant: Combustion Engineering, Chapel Hill, NC. (1986)
- (25) Survey Methods Consultant: National Wildlife Federation, Washington, DC. (1986-1988)
- (26) Sampling Consultant: Office of Technology Assessment, Washington, DC. (1986)
- (27) Sampling Consultant: Research and Design Associates, RTP, NC. (1987-)
- (28) Sampling Consultant: MONICA Project of the World Health Organization, Helsinki, Finland. (1989-1991)
- (29) Survey Methods Consultant: Program Resources, Inc., RTP, NC. (1989-)
- (30) Sampling Consultant: Horizon Research, Inc., Chapel Hill, NC. (1989)

- (31) Sampling Consultant: Bowman-Gray School of Medicine, Department of Biometry and Community Medicine, Winston-Salem, NC. (1990-1991)
 - (32) Sampling Consultant: Blue Cross and Blue Shield of North Carolina, Durham, NC. (1990-1993; 1999-)
 - (33) Sampling Consultant: Alliance Technologies, Inc., RTP, NC. (1991)
 - (34) Sampling Consultant: R.O.W. Sciences, Inc., Rockville, MD. (1992)
 - (35) Sampling Consultant: Hawaii Veterans Administration Stress Disorders Research Laboratory, Honolulu, HA. (1992-1993)
 - (36) Sampling Consultant: U.S. Environmental Protection Agency, Research Triangle Park, NC (1993, 1997)
 - (37) Sampling Consultant: Glaxo Pharmaceuticals, Inc., Research Triangle Park, NC (1993-1994)
 - (38) Sampling Consultant. George Washington University, Washington, DC (1994)
 - (39) Sampling Consultant. California Department of Health, Smoking Section, Sacramento, CA (1995)
 - (40) Survey Methods Consultant. Centers for Disease Control, AIDS Surveillance Branch, Atlanta, GA (1995)
 - (41) Sampling Consultant. Center on Addiction and Substance Abuse, Columbia University, New York, NY (1995-1997)
 - (42) Sampling Consultant. Owen Graduate School of Management, Vanderbilt University, Nashville, TN (1996-1997)
 - (43) Webmaster (with Joe Mauney, and David Coole). Survey Research Methods Section Home Page on the World Wide Web (1995-1996).
 - (44) Sampling Consultant, Defense Manpower Data Center, Department of Defense, Washington, DC (1996-)
 - (45) Survey Methods Consultant: Mayor's Office, New York, NY (1996-)
- Survey Methods Consultant: Ceredigm Corporation, Raleigh, NC (1997-)

B. Professional Peer Review (Since 9/73)

- (1) Referee: Biometrics (1974, 1978, 1981, 1982)
- (2) Referee: American Statistician (1975, 1976, 1977, 1978, 1979, 1981, 1983)
- (3) Grant Reviewer: National Science Foundation (1977, 1978, 1979, 1981, 1983, 1985, 1986)
- (4) Referee: Journal of the American Statistical Association (1978, 1984, 1985, 1998, 1999)
- (5) Grant Reviewer: University of Tennessee, Office of Research Programs (1980)
- (6) Referee: Kidney International (1981)
- (7) Reviewer: The Design and Use of a Master Sample for Household Surveys, NHSCP, Statistical Office, United Nations (1982)
- (8) Referee: Controlled Clinical Trials (1983, 1984)
- (9) Personnel Reviewer: University of Michigan, Institute for Social Research (1983)
- (10) Referee: Journal of Chronic Diseases (1983)

- (11) Referee: American Journal of Public Health (1983, 1985, 1986, 1991, 1995, 1996)
- (12) Referee: Public Opinion Quarterly (1986, 1987, 1988, 1993, 1994, 1996)
- (13) Referee: Health Services Research (1986, 1994,)
- (14) Referee: Survey Methodology (1987, 1993, 1994)
- (15) Referee: Journal of Official Statistics (1989, 1993, 1994, 1997)
- (16) Referee: American Journal of Epidemiology (1991)
- (17) Referee: Journal of Acquired Immune Deficiency Syndrome (1992)
- Referee: Journal of Business and Economic Statistics (1996)
- Referee: Statistics in Medicine (1999)

C. Professional Committee Involvement

- (1) Student Representative: Department Chairmanship Search Committee, Department of Biostatistics, School of Public Health, University of Michigan. (1970-1971)
- (2) Student Representative: Faculty Committee, Department of Biostatistics, School of Public Health, University of Michigan. 1971-1973)
- (3) Member: Technical Advisory Panel for a Targeted Study of Catastrophic Illness Addressing Spinal Injury. (1976-1977)
- (4) Member: American Statistical Association Committee on Membership. (1977-1979)
- (5) Chairman: Department of Biostatistics Seminar Committee. (1979-1980)
- (6) Member: Department of Biostatistics Examinations Committee. (1979-)
- (7) Member: School of Public Health, Institutional Review Board on Research Involving Human Subjects. (1980-1982; 1990-1993)
- (8) Member: Council of American Survey Research Organizations (CASRO) Task Forces on Definitions of Survey Completion Rates. (1980-1981)
- (9) Chairman: American Statistical Association, Section on Survey Research Methods, Committee to Access the Job Market for Survey Statisticians. (1980-1983)
- (10) Member: Committee on Sampling Strategies, National Academy of Sciences. (1981-1984)
- (11) Member: Department of Biostatistics Ad Hoc Committee on Department Goals for the 1980s. (1981)
- (12) Member: Department of Biostatistics Policy Advisory Committee. (1982-1985)
- (13) Member: Department of Biostatistics Graduate Studies Committee. (1983-)
- (14) Member: Department of Biostatistics Ad Hoc Faculty Retreat Committee (1984)
- (15) Member: Veterans Administration, Technical Advisory Committee for the National Vietnam Veterans Readjustment Survey (1984-1989)
- (16) Member: American Statistical Association, Section on Survey Research Methods, Committee on Tutorials (1984-1986); Chairman (1985-1986)
- (17) Member: Veterans Administration, UNC/VA Doctoral Training Committee (1985-1990)

- (18) Member: American Statistical Association, Committee on Continuing Education (1986-1990)
- (19) Member: UNC School of Public Health Graduate Programs Committee (1986-1989)
- (20) Member: UNC School of Public Health Ad Hoc Search Committee for a Chairman of the Department of Biostatistics (1986-1987)
- (21) Chairman: UNC School of Public Health Undergraduate Program Task Force (1987-1988)
- (22) Member: Biostatistics Strategic Planning Committee (1988-1992)
- (23) Member: UNC School of Public Health's Health Promotion and Disease Prevention Steering Committee (1989-1991)
- (24) Member: Technical Advisory Committee on the Feasibility of the National (HIV) Seroprevalence Survey, Centers for Disease Control (1989-1990)
- (25) Member: Panel on the National Health Care Survey, National Academy of Science (1990-1992)
- (26) Member Public Health Leadership Program Development Panel, UNC School of Public Health (1991-1992)
- (27) Member: Technical Advisory Panel, National Medical Expenditure Survey, Agency for Health Care Policy and Research (1991-1997)
- (28) Member: North Carolina State Center for Health and Environmental Statistics, Health Policy Information Program Management Team (1992-1993)
- (29) Member: Advisory Panel, Survey on Income and Program Participation (SIPP), US Bureau of the Census (1993-1995)
- (30) Member: Biostatistics Curriculum Review Committee (1993-1995)
- (31) Member: Panel for National Forum on Health Care Reform (1994)
- (32) Member: North Carolina Governor's Health Planning Commission Advisory Committee on Health Data (1994)
- (33) Member: UNC School of Public Health Public Health Leadership Internal Advisory Committee (1991-1992)
- (34) Member: UNC School of Public Health Steering Committee for Interdisciplinary Curriculum in Practice and Leadership (1993-1994)
- (35) Publications Officer, Section for Survey Research Methods, American Statistical Association, (1995-1996)
- (36) Member: UNC School of Public Health's Committee to Study the Use of Telecommunications and Other Technological Innovations in Achieving the Teaching and Research Goals of the School (1995-1996)
- (37) Member: UNC School of Public Health Ad Hoc Search Committee for a Chairman of the Department of Health Behavior and Health Education (1995-1996)
- (38) Member: Technical Advisory Committee, Pregnancy Risk Assessment Monitoring Program, North Carolina State Center for Health and Environmental Statistics, (1996-).
- (40) Member: Ad Hoc Advisory Committee to the National Youth Risk Behavioral Survey, Centers for Disease Control (1996).

- (39) Member: Advisory Committee to the National Household Survey on Drug Abuse, Substance Abuse and Mental Health Services Administration, National Health Services Administration, (1997-).
- (40) Member: Committee to Review the Social Security Administration's Disability Decision Process Research, National Academy of Sciences, National Research Council, Institute of Medicine, (1997 -).

Member, Publication Committee for *Standard Definitions: Final Disposition of Case Codes and Outcome Rates for RDD Telephone Surveys and In-Person Household Surveys*, The American Association for Public Opinion Research (1997-1998).

Chair, Subcommittee on the Disability Evaluation Study Design, Committee to Review the Social Security Administration's Disability Decision Process Research, National Academy of Sciences, National Research Council, Institute of Medicine, (1997 -).

Member: Committee on National Statistics (CNSTAT), National Academy of Sciences, National Research Council, Institute of Medicine, (1998 -).

Member: UNC School of Public Health's Committee to Plan the Institute for Public Health, (1998-1999).

D. Student Committee Involvement: Doctoral Dissertations

| | <u>Role</u> | <u>Student</u> | <u>Department</u> | <u>Year</u> | <u>Topic</u> |
|------|-------------|-----------------|--------------------------------|-------------|---|
| (1) | Co-Chair | Steven Cohen | Biostatistics | 1978 | Post-Censal Estimation for Small Areas |
| (2) | Member | Rudolf Jackson | Health Administration (UNC-CH) | 1978 | Determinants in Choosing Schools of Public Health by Students |
| (3) | Member | Deborah Watson | Biostatistics | 1979 | Case Ascertainment Models in Population Genetics |
| (4) | Member | Kevin O'Brien | Biostatistics | 1981 | Life Table Variances From Complex Samples |
| (5) | Member | Norman Carroll | Pharmacy (UNC-CH) | 1981 | Analysis of Administration of Retail Pharmacy Marketing Strategies |
| (6) | Chairman | Ophelia Mendoza | Biostatistics | 1982 | Variances of Indirect Estimators From Complex Survey Data |
| (7) | Chairman | Camilla Brooks | Biostatistics | 1982 | Double Sampling Total Survey Error Models |
| (8) | Member | Lisa Kammerman | Biostatistics | 1984 | Effect of Falsification and Nonresponse in Randomized Response Estimation |
| (9) | Member | Ralph Folsom | Biostatistics | 1984 | Variance Components Analyses in Complex Sampling Designs |
| (10) | Member | Jerri Pomerantz | Zoology (NCSU) | 1985 | Relationship of Knowledge About and Attitudes Towards Animals in Children |
| (11) | Chairman | Anne Clemmer | Biostatistics | 1985 | Assessment of Measures of Intraclass Correlation |

| | <u>Role</u> | <u>Student</u> | <u>Department</u> | <u>Year</u> | <u>Topic</u> |
|------|-------------|-----------------------|------------------------------------|-------------|--|
| (12) | Member | Rick Williams | Biostatistics | 1988 | Invariance of U-Statistics in Finite Population Sampling |
| (13) | Member | Paul Flyer | Biostatistics | 1989 | BRR Variance Estimation |
| (14) | Member | Ali Barakat | Biostatistics | 1989 | Nonparametric Nearest Neighbor Test for Homogeneity |
| (15) | Chairman | Emelita DeLeon-Wong | Biostatistics | 1989 | Regression Imputation for Nonresponse |
| (16) | Member | Steven Ciesielski | Parasitology & Laboratory Practice | 1989 | Survey of Parasite Infestation Among Migrant Farm Workers |
| (17) | Member | Paul A. Flyer | Biostatistics | 1989 | Finite Population Correction for Replication Estimates of Variance |
| (18) | Chairman | Frank Potter | Biostatistics | 1990 | Effects and Weight Smooth- in Survey Analysis |
| (19) | Chairman | Virginia M. Lesser | Biostatistics | 1992 | A Comparison of Periodic Survey Designs Employing Multi-Stage Sampling |
| (20) | Member | M. Chaudhary | Biostatistics | 1995 | Aymptotic Inference from Unequal Probability, Multi-Stage Samples |
| (21) | Member | Rachel Garshick Kleit | City and Regional Planning | 1997 | Housing, Social Networks, and Access to Opportunity |
| (22) | Member | Karen Cooper | Epidemiology | 1997 | Health Outcomes and the Canadian Experience |
| (23) | Member | Paula Kantor | City and Regional Planning | 1997 | Determinants of Women's Quality of Opportunity in Business |
| (24) | Member | Lauren McCormack | Health Policy and Administration | 1998 | Consumer Assessment of Health Plans for Medicare |
| (25) | Member | Michelle Davis | Epidemiology | 2000 | Predictors of Current Contraceptive Status |

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| E. Student Committee Involvement: Master's Theses |
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| | <u>Role</u> | <u>Student</u> | <u>Department</u> | <u>Year</u> | <u>Topic</u> |
|------|-------------|-----------------|---------------------|-------------|--|
| (1) | Advisor | Seth Steinberg | Biostatistics | 1980 | Optimum Stage Allocation for Surveys in Developing Countries |
| (2) | Advisor | Ava McDaniel | Biostatistics | 1982 | Data Collection System for NC HomeHealth Care Agencies |
| (3) | Advisor | Aues Scek | Biostatistics | 1982 | Sampling Errors for the Somalia Demographic Survey |
| (4) | Advisor | Ali Barakat | Statistics (UNC-CH) | 1982 | Simple Estimator of Intraclass Correlation |
| (5) | Advisor | Wendene Foran | Biostatistics | 1982 | Comparison of Software to Do Analysis of Data from Surveys with Complex Sampling Designs |
| (6) | Reader | Melinda Flock | Biostatistics | 1983 | Analysis of U.S. Survey of Births |
| (7) | Advisor | Nancy Lucas | Statistics (UNC-CH) | 1984 | Taylor Series Variance Estimation in Epidemiologic Surveys |
| (8) | Advisor | Stuart Lipsitz | Biostatistics | 1985 | Estimating Intraclass Correlation |
| (9) | Advisor | Nellie Hansen | Biostatistics | 1988 | Assessment of Measured Response Probabilities |
| (10) | Reader | Glen Davies | Biostatistics | 1988 | Comparison of Analytical Methods for Analysis of Complex Survey Data |
| (11) | Advisor | Rebecca Parker | Biostatistics | 1988 | Sampling Strategies for Migrant Farm Workers |
| (12) | Advisor | Linda Sanders | Biostatistics | 1989 | An Application of Network Sampling to the Problem of Surveying Pregnant Women |
| (13) | Advisor | Rosalie Dominik | Biostatistics | 1989 | An Assessment of Weight Trimming on Data from a Household Survey in Honduras |

| | <u>Role</u> | <u>Student</u> | <u>Department</u> | <u>Year</u> | <u>Topic</u> |
|------|-------------|-------------------|-------------------|-------------|---|
| (14) | Advisor | Katherine Desmond | Biostatistics | 1990 | The Medicare Catastrophic Coverage Act: A Survey of the Elderly |
| (15) | Advisor | Phillip Simmons | Biostatistics | 1991 | Interviewer Variance in BRFSS Samples |

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|------|---------|------------------|---------------|------|--|
| (16) | Advisor | Peggy Hastie | Biostatistics | 1991 | Standardization Using BRFSS Data |
| (17) | Advisor | Jill Dever | Biostatistics | 1992 | Cost-Efficiency Survey Design in Physician Surveys |
| (18) | Advisor | Pao-Wen Liu | Biostatistics | 1992 | Assessment of Survey Designs for Conducting Childhood Immunization Studies |
| (19) | Advisor | Martha Manciewiz | Biostatistics | 1994 | Sampling Prenatal Care Providers from a Frame of Physicians |
| (20) | Advisor | Todd Durham | Biostatistics | 1995 | Nonresponse and Its Effects in a Followup Telephone Survey of Low Income Women |
| (21) | Advisor | David Coole | Biostatistics | 1995 | Behavioral Risk Factor Surveillance System Question Sequence Study |
| (22) | Advisor | Scott Joens | Biostatistics | 1996 | Cost-Effectiveness and Advance Mailings in a Telephone Followup Survey |
| (23) | Advisor | Shelley Brock | Biostatistics | 1996 | Contagion Effects of a Nutrition Intervention Study of African Americans |
| (24) | Advisor | Joe Mauney | Biostatistics | 1997 | Unintentional Cross-Over Effect in Community Intervention Studies |
| (25) | Advisor | Katherine Bowman | Biostatistics | 1997 | Mean and Range Quality Control Monitoring of Interviewer Variance in the BRFSS |
| (26) | Advisor | Wendy Ahmed | Biostatistics | 1998 | An Analysis of Call History Data from the Behavioral Risk Factor Surveillance System |
| (27) | Advisor | Dawn Odom | Biostatistics | 1999 | Process Effects on Telephone Calling Outcomes in the Behavioral Risk Factor |
| (28) | Advisor | Brian Sutton | Biostatistics | 1999 | An Assessment of Process Indicators in a Statewide Survey of High School Sports Injury |
| (29) | Advisor | Kennan Beckett | Biostatistics | 1999 | Third Phase Analysis of Call History Data from the BRFSS |

VIII. Teaching Activities

- (1) Student Assistant: Applied Statistics Training Institute, University of Michigan. One week continuing education workshop in basic statistics for health professionals; 1972.
- (2) Instructor: BIOS 164 (Introduction to Sample Survey Methods), University of North Carolina. One semester course in the design of sample surveys, taught each year and covering elementary sampling theory, sample design, nonsampling error, and analysis of data from complex samples; each year 1979-present.
- (3) Co-Instructor (with Dennis Gillings): Short course in Survey Methods, University of North Carolina. One week continuing education course in sampling and survey methods for health professionals; 1979, 1981, 1982.
- (4) Instructor: BIOS 264 (Advanced Sample Survey Methods), University of North Carolina. One semester course covering advanced topics in sampling theory and survey methods with emphasis on the application of PPS sampling, nonsampling errors, and variance estimation from complex samples; 1979, 1981, 1984, 1989, 1991, 1993, 1995, 1997.
- (5) Co-Instructor: Summer Program for Foreign Statisticians, Sociology 621, University of Michigan. Workshop on sampling techniques following a case-study from a household survey in Somalia; 1985.
- (6) Instructor: Two-Day Short-Course on Basic Sampling Methods, Centers for Disease Control, Atlanta, Georgia. Covered sampling theory for several well-known approaches to probability sampling; 1986, 1987, 1988, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999.
- (7) Instructor: Two-Day Short-Course on Applied Sampling, Centers for Disease Control, Atlanta, Georgia. Covered three case-studies in the design and analysis of sample surveys; 1986, 1987, 1988, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999.
- (8) Instructor: Two-Day Short-Course on Basic Sampling Methods, National Institute for Occupational Safety and Health. Covered sampling theory for several well-known approaches to probability sampling; 1994 (Cincinnati), 1999 (Pittsburgh).
- (9) Instructor: Two-Day Short-Course on Applied Sampling, National Institute for Occupational Safety and Health. Covered three case-studies in the design and analysis of sample surveys; 1994 (Cincinnati), 1995 (Morgantown), 2000 (Pittsburgh).
- (10) Co-Instructor: BIOS 240 (Current Topics in Sample Survey Research), University of North Carolina. One semester course covering the current literature on the theory of survey error and ways to deal with it. 1986.
- (11) Guest Lecturer: Epidemiology 160 (Principles of Epidemiology), University of North Carolina. Lecture on sampling and survey methods. 1987, 1988, 1989, 1990, 1991, 1992.
- (12) Guest Lecturer: Health Behavior/Health Education (HBHE) 250 (Evaluation and Research Methods in Health Education). Lecture on sampling methods and design strategies. 1982, 1989.
- (13) Co-Developer (with Linda L. Sanders, and William Foard): Computer program called "SAMPLE," which empirically demonstrates some of the principles of sampling and sample design for introductory courses in survey sampling. 1989-1995.
- (14) Co-Instructor (with Mitchell Karpman): One-Day Short-Course on the Use of SUDAAN for Survey Data Analysis, US Government Accounting Office, Washington, DC. 1990.
- (15) Guest Lecturer: Epidemiology 218 (Introduction to Infectious Disease Epidemiology), University of North Carolina. Lecture on sampling and survey methods. 1992.
- (16) Co-Instructor: Half-Day Short-course on Analysis of Data from Complex Surveys, North Carolina State Center for Health and Environmental Statistics. 1992.
- (17) Guest Lecturer: PUBH (Leadership Seminar IV), University of North Carolina, Combining practice and faculty role at UNC. 1994.
- (18) Co-Instructor. One-Day Short-Course on Nonsampling Error in Surveys, Washington (DC) Statistical Society, February 1994.

- (19) Instructor: Two-and One-Half-Day Short-Course on Basic Sampling Methods, Applied Statistics Training Institute (ASTI), National Center for Health Statistics. Covered sampling theory for several well-known approaches to probability sampling; 1994, 1995, 1996.

Instructor: Two-Day Short-Course on Nonsampling Error in Surveys, Centers for Disease Control, Atlanta, Georgia. Covered sources, effects, and remedies for survey error due nonresponse, measurement problems, and faulty sampling frames, 1997, 1998.

Guest Lecturer: Biostatistics 250 (Advanced Techniques in Biometry), University of North Carolina. Lecture on nonresponse error in population-based samples. 1999.

Lecturer: Spring Advanced Analytic Methods Seminar, Department of Epidemiology, University of North Carolina. Lectures on sample design and the analysis of data from complex samples. 2000.